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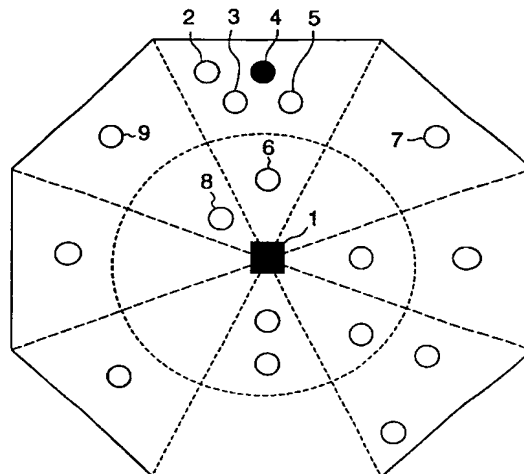
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(54) Title: MULTI-USER DETECTION IN MOBILE TERMINAL FOR REDUCING INTERFERENCE



(57) Abstract: Interference cancellation in a mobile terminal (4) in telecommunication systems like Direct Sequence - Code Division Multiple Access systems or DS-CDMA systems can be improved by providing the mobile terminal (4) with a multi-user detector (41,42,43). These multi-user detectors require the spreading codes of other mobile terminals (2,3,5,6,7,8,9), which spreading codes are available in base stations (1) and thus need to be sent to said mobile terminal (4). By further transmitting power information of other mobile terminals (2,3,5,6,7,8,9) to the mobile terminal (4), a selector (52) can make an intelligent selection in said mobile terminal (4) and select the most important spreading codes thereby reducing the computational complexity. By locating a selector (22) in a base station (1), an intelligent selection can also be made in said base station. Preferably a selection is made per antenna sector and/or in dependence of antenna sectors, in which case direction information of other mobile terminals (2,3,5,6,7,8,9) need to be used.